see appendix sheet

ADDITIONAL FLOUNDER DATA FOUND.

FLOUNDER TAGGING

F0993 – F1015

ANADROMOUS TAGGING

2451

R/V DAN MOORE STATION LOG

VESSEL (1)	STATION (2-5)	CRUISE NO. (6-8)	MO. DAY YEAR (9-14)	GRID (15-17)	LATITUDE (18-21)	LONGITUDE (22-25)	
M	2451	032	04 02 74	26AC	3622	7549	
DEPTH (26-29)	SUR. TEMP. (30-31)	BTM TEMP. (32-33)	AIR TEMP (34-35)	BAROMETER (36-38)	BT (39)	WIND DIR. (40-41)	WIND SPD. (42-43)
0006	11	—	20	997	N	W	10
S.C. (44)	WEA. (45-46)	BTM TYPE (47-48)	BTM REG (49)	GEAR TYPE (50-51)	GEAR SIZE (52-54)	OP (55)	TM. START (56-57)	MIN. FISHED (58-60)
1	MC	SA	E	FT	151	—	19	622

RIG (61-62)	TOTAL FINFISH (63-67)	TOTAL CRUSTACEANS (68-71)	TOTAL SHELLFISH (72-75)	TOTAL OTHER (76-80)
01	00100	0007	—	—

RIG (61-62)	TOTAL FINFISH (63-67)	TOTAL CRUSTACEANS (68-71)	TOTAL SHELLFISH (72-75)	TOTAL OTHER (76-80)
—	—	—	—	—

POSITION	LATITUDE	LONGITUDE	LORAN		DEPTH fms	C/C	TIME ON STATION	
			3H4	3H5			PO	DO
START	36°22'	75°49'	1708	3038	6		1852	1853
							PU	ON
FINISH	36°22'	75°49'	1708	3039	6		1915	1917

LENGTH WARF	SHIFT RPM	PITCH	GEAR DATA:
50	1300~/5	50	

SPECIAL MODIFICATIONS

OPERATIONAL COMMENTS

Towed in circle

OBSERVATIONS

Alosids - positive

P. dentatus - "

.166
6)100
6
46
36
40

R/V DAN MOORE SPECIES LIST

STATION NUMBER 2451 DATE April 2 1974 Biologists ~~IDENTIFIED BY~~ BFH ABP

TOTAL CATCH WT. 100 SUBSAMPLE WT. ______ NO. BASKETS ______

Air: 20°C Surf: 10.5°C FF100: C:7 : m – D: –

SPECIES	NUMBER	WEIGHT	DATA TAKEN *
Alosids ⊕	Common	25	Juveniles + Adults –
			no true subsample taken. Adult
			Fish were tagged and
			those dead were kept
			Saw juvenile A. sapidissima
Lock ⊖			
Sturgeon ⊖			
P. dentatus +	Common	25	
Cancer irroratus	Few	5	
Libinia	Few	2	
Lophius americanus	2	20	
Scopthalmous aquosus	few	2	
Squalus acanthias	5	25	
Cynoscion regalis	20	20+	Pan trout
Peprilus triacanthus	Few	2	
Urophycis regius	few	1	

*Include type of data taken, i.e length, weight, scales, gonads, saved for identification, etc.

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Grids 27AE & 26AC

ANADROMOUS FISH TAGGING & RELEASE DATA

Station No. 2450 + 2451

Tot. Fish Captured 209 (196 BB, 12 Alw, 1 Ams)

Date 2 April, 1974

Tot. Fish Tagged 65 (63 (BB) 2 (Alw))

Area of Release 3.3 mi E. Currituck Light. 8 FMS

No. Retained for analysis 144 (1 Ams, 133 BB, 10 Alw) 1 Ams

LORAN 2450 Start 1508-1503 2992-2988 10-11 FMS

Gear Type 15' Wing Trawl

2451 Finish 1708 - 3839 6 FMS. (Only 6 fish from Sta. 2450)

TAG. NO.	Weight Lbs. Ozs.	F.L. (cm)	Species	Remarks
			Blueback	B25820 – B25882
				(63)
			Alewife	B25883 - B25884
				(2)

BLUEBACK

Spawn.

Stat.	Date	FL(mm)	wt(g)	Sex	Scales	age	Marks	STAGE	BB No
2420✓	3/12/74	140	28		–	–	–	–	857
"		148	36	♀	–	–	–	Imm	858
"		160	40	♀	–	–	–	Imm.	859
"		166	50	–	–	–	–	–	860
"		145	32	♂	–	–	–	–	861
"		135	30		–	–	–	–	862
"		140	30	♂	–	–	–	–	863
"		134	26		–	–	–	–	864
"		157	44		–	–	–	–	865
"		150	36		–	–	–	–	866
"		140	28		–	–	–	–	867
"		148	40		–	–	–	–	868
"		150	36		–	–	–	–	869
"		160	40	♂	–	–	–	–	870
"		124	20	♀	–	–	–	Imm.	871
"		160	44	♂	–	–	–	–	872
2420✓		185	60	♂	–	–	–	–	873
2450-2451✓	4/2/74	252	220	♀	–	–	–	III	874
"		245	206	♂	–	–	–	–	875
"		235	186	♀	–	–	–	III	876
"		250	230	♀	–	–	–	III	877
"		250	202	♂	✓	3A-1S=4	1	Spent V	878
"		227	170	♂	–	–	–	–	879
"		255	272	♀	✓	3A-1St=5	1	III	880
"		258	300	♀	✓	4A-1St=6	1	III	881
"		245	204	♂	–	–	–	–	882
"		205	120	♀	–	–	–	II	883
"		252	260	♀	✓	3A-3S=6	3	III	884
2468✓	4/11/74	235	196	♀	✓	2A+=3	0	III	885
2424✓	3/14/74	75	–	–	–	–	–	–	886
"		77	–	–	–	–	–	–	887
"		73	–	–	–	–	–	–	888
"		77	–	–	–	–	–	–	889
"		77	–	–	✓	0+=1	0	–	890
"		83	–	–	✓	0+=1	0	–	891
"		73	–	–	–	–	–	–	892
"		76	–	–	✓	0+=1	0	–	893
"		70	–	–	✓	0+=1	0	–	894
"		75	–	–	✓	0+=1	0	–	895
"		77	–	–	✓	0+=1		–	896
"		75	–	–	–	–	–	–	897
"		73	–	–	–	–	–	–	898
"		73	–	–	✓	0+=1	0	–	899
"		75	–	–	–	–	–	–	900
"		95			✓	0+=1	0	–	901
"		75	–	–	–	–	–	–	902
"		67	–	–	–	–	–	–	903
"		75	–	–	✓	0+=1	0	–	904
"		72	–	–	–	–	–	–	905
"		78	–	–	–	–	–	–	906
"		74	–	–	–	–	–	–	907

BLUEBACK

							Spawn		
Station	Date	FL(mm)	Wt (g)	Sex	Scales	Age	Marks	Stage	[illegible]
2424	3/14/74	75	—	—	—	—	—	—	908
"		74	—	—	—	—	—	—	909
"		82	—	—	—	—	—	—	910
"		100	—	—	✓	1A - 1	0	—	911
"		70	—	—	—	—	—	—	912
"		74	—	—	—	—	—	—	913
2450a	4/2/74	158	42	♂	✓	1A+ = 2	0		914
"		158	38	♂	✓	1A+ = 2			915
"		142	40	♂	✓	1A+ = 2			916
"		157	46	♀	—	—	—	Imm	917
"		158	46	♀	—	—	—	Imm	918
"		180	52	♀	—	—	—	Imm	919
"		170	56	♂	—	—	—		920
"		149	39	♂	—	—	—		921
"		165	48	♀	✓	2A+ = 3		Imm	922
"		160	42	♂	—	—	—		923
"		145	38	♀	✓	2A+ = 3		Imm	924
"		175	60	♀	✓	2A+ = 3		Imm	925
"		150	38	♀	—	—	—	Imm	926
"		152	42	♀	—	—	—	Imm	927
"		147	38	♀	—	—	—	Imm	928
"		150	28	♂	—	—	—		929
"		138	30	♀	—	—	—	Imm	930
"		142	30	♀	✓	1A+ = 2		Imm	931
"		147	30	♂	—	—	—		932
"		155	32	♂	—	—	—		933
"		152	36	♀	—	—	—	Imm	934
"		160	46	♀	—	—	—	Imm	935
"		157	44	♂	—	—	—		936
"		167	46	♀	—	—	—	Imm	937
"		182	66	♂	—	—	—		938
"		145	30	♂	—	—	—		939
"		~~155~~	~~38~~	~~♀~~	—	—	—	Imm.	940
"		160	42	♀	✓	2A+ = 3		Imm	941
		160	44	♂	—	—	—		942
"		159	40	♂	—	—	—		943
		137	22	♂	—	—	—		944
"		150	36	♂	✓	2A+ = 3			945
"		155	39	♂	✓	2A+ = 3		" "	946
"		144	38	♂	—	—	—		947
"		145	38	♀	—	—	—	Imm	948
"		142	30	♀	—	—	—	Imm.	949
"		152	42	♀	—	—	—	Imm.	950
"		164	46	♀	✓	2A+ = 3		Imm.	951
"		143	32	♀	—	—	—	Imm	952
"		135	28	♂	—	—	—		953
"		155	44	♂	—	—	—		954
"		148	33	♀	✓	1A+ = 2		Imm	955
"		142	26	♂	—	—	—		[illegible]
"		165	42	♀	✓	2A = 2		Imm	[illegible]
"		145	36	♂	—	—	—		958
"		142	30	♂	—	—	—		[illegible]
"		140	30	♂	—	—	—		960

BLUEBACK

Station	Date	FL(mm)	Wt(g)	Sex	Scales	Age	Spawn Marks	[illegible]	[illegible]
2450 ✓	4/2/74	150	36	♂	–	–	–		961
"		155	40	♂	–	–	–		962
"		160	40	♂	✓	2A+=3			963
"		80	–	–	–	–	–	–	964
"		78	–	–	–	–	–	–	965
"		73	–	–	–	–	–	–	966
"		75	–	–	–	–	–	–	967
"		70	–	–	–	–	–	–	968
"		80	–	–	–	–	–	–	969
"		85	–	–	–	–	–	–	970
"		78	–	–	–	–	–	–	971
"		77	–	–	–	–	–	–	972
"		88	–	–	–	–	–		973
"		67	–	–	–	–	–	–	974
"		68	–	–	–	–	–	–	975
"		73	–	–	–	–	–	–	[illegible]
"		71	–	–	–	–	–	–	[illegible]
"		65	–	–	–	–	–	–	[illegible]
"		74	–		–	–	–		979
"		82	–	–	–	–		–	[illegible]
"		75	–	–	–	–		–	[illegible]
"		70	–	–	–		–	–	982
"		73	–	–	–	–	–	–	983
"		68	–	–	–	–	–	–	984
"		71	–	–	–	–	–	–	985
"		68	–	–	–	–	–	–	986
"		83	–	–		–	–	–	987
"		83	–		–	–		–	988
"		78	–	–	–	–	–	–	989
"		98	–	–	–	–	–	–	990
"		80	–	–	–	–	–	–	991
		67	–	–	–		–	–	992
"		73	–	–	–		–	–	993
"		72	–	–	–	–	–		994
		68	–	–	–				995
		[illegible]					–		996
		72	–	–					997
		70	–	–		–	–	–	998
		63	–						999
		[illegible]	–						1000
		70							1001
		77							1002
		78	–						1003
		68	–						1004
		73	–						1005
		73	–			–			1006
		73	–						1007
		67	–						1008
		82	–	–				–	1009
		67	–						1010
		74	–	–	–	–	–	–	1011
		78	–			–	–		1012
		73			–			–	[illegible]
		65		–					[illegible]

BLUE BACK

Sta.	Date	FL(mm)	wt(g)	Sex	Scales	Age	Spawn Marks	Stage	BB No.
2450✓	4/2/74	77							1015
"	"	67							1016
"	"	65							1017
"	"	72							1018
"	"	75							1019
"	"	73							1020
"	"	63							1021
"	"	83							1022
"	"	70							1023
"	"	68							1024
"	"	68							1025
"	"	74							1026
"	"	80							1027
"	"	77							1028
"	"	69							1029
"	"	68							1030
"	"	68							1031
"	"	67							1032
"	"	73							1033
"	"	72							1034
"	4/2/74	70							1035
2418✓	3/12/74	70							1036
↓	"	70							1037
	"	75							1038
	"	100							1039
	"	70							1040
	"	75							1041
2418	3/12/74	75							1042
2419✓	3/12/74	250	232	♂	✓	3A-3S=6	3	-	1043
2422✓	3/13/74	199	170	♂	-	-	-		1044
2504✓	5/16/74	233	146	♂	✓	3A-2S=5	2	V Spent	1045
"	"	220	120	♂	✓	4A-1S=5	1	V Spent	1046
"	"	248	164	♂	✓	4A-3S=7	3	V Spent	1047
"	"	260	180	♂	✓	3A-3S=6	3	V Spent	1048
2500✓	5/16/74	245	130	♂	✓	4A-1S=5	1	V Spent	1049

ALEWIFE

Sta.	Date	FL(mm)	Wt(g)	Sex	Scales	Age	Spawn Marks	Stage	AL No.
2417 ✓	3/7/74	225	288	♂	✓	4A+=5	O	—	103
"	"	252	260	♂	✓	5A-1S+=7	|	—	104
"	"	242	226	♀	✓	4A+=5	O	III	105
	11/	2713							
2470 ✓	3/12/74	225	162	♂	—	-	—	-	106
"	"	234	200	♂	—	—	-	-	107
"	"	145	34	I	-	—	-	-	108
"	"	135	36	I	-	-	-	-	109
"	"	130	30	I	—	-	-	-	110
"	"	125	18	I	-	-	-	-	111
"	"	140	26	I	-	-	-	-	112
"	"	145	30	I	-	-	-	-	113
"	"	145	30	I	-	-	-	-	114
"	"	135	30	I	-	-	-	-	115
"	"	144	30	I	-	-	-	-	116
"	"	147	38	I	-	—	-	-	117
"	"	137	38	I	-	-	-	—	118
	13/	1987							
2450-2451 ✓	4/2/74	1/ 240	180	♀	-	-	-	III	119
2424 ✓	3/14/74	108	—	—	✓	0+=1	O	-	120
"	"	115	—	—	✓	1A+=2	O	-	121
"	"	151	—	♀	✓	2A+=3	O ✓	Imm	122
"	"	132	—	♀	—	—	—	Imm	123
"	"	135	—	—	✓	2A+=3	O	—	124
	5/	641							
2450 ✓	4/2/74	122	26	♀	✓	1A+=2*		Imm	125
"	"	120	20	♀	—	—	-	Imm	126
"	"	129	26	♀	—	—	—	Imm	127
"	"	125	26	♀	✓	1A+=2	O	Imm	128
"	"	110	16	♂	—	—	—		129
"	"	110	19	♀	✓	1A+=2	O	Imm	130
"	"	100	10	—	✓	2A=2	O	—	131
"	"	110	18	—	✓	0+=1	O	—	132
"	"	103	18	—	—	—	—	—	133
	9/	1029							
2418	3/12/74	135	20	♂	—	-	-	—	134
	"	149	44	♀	—	—	—	Imm	135
	"	149	44	♀	—	—	—	Imm	136
	"	163	60	♂	✓	unrendible		—	137
	"	137	30	♂	—	-	-	—	138
	"	145	36	♀	—	—	-	Imm	139
	"	133	36	♀	✓	2A=2	O ✓	Imm	140
	"	127	26	♂	—	—	—	—	141
	"	145	44	♂	✓	1A+=2	O	Imm	142
	"	138	38	♂	—	—	-	—	143
	"	158	56	♀	✓ ?	1A+=2	O	Imm	144
	"	163	48	♂	—	—	-	—	145
	"	140	38	♂	—	-	-	—	146
	"	145	40	♀	—	—	-	Imm	147
	"	143	40	♀	-	—	—	Imm	148
	"	142	42	♂	✓	1A+=2	O	—	149
↓	"	127	28	♀	—	—	-	Imm	150
2418	"	109	18	♂	—	—	-	—	151

Species. P. dentatus

Specimen Number	T.L.	Sex	Otoliths	Gonads	Fecundity	Back-calc.	Age	Gonad Stage	Station Number	Remarks WT. g.	
4-1	460	♀	✓	✓				VIII	2450	—	15.8 g
4-2	212	♀	—	—				I	〃	100	April 1974
4-3	450 ✓	♀	✓	✓				VII	2451	—	*8.4 g Area I
4-4	529 ✓	♀	✓	✓				III	〃	—	*14.6 (II ?) April 1974
4-5	269	♂	✓	—				—	2481	190	Area II
4-6	249	♀	✓	—				I	〃	155	April 1974
4-7	248	♀	✓	—				I	〃	150	
4-8	264	♀	✓	—				I	〃	160	
4-9	250	♀	✓	—				I	〃	150	
4-10	240	♀	✓	—				I	〃	135	
4-11	256	♀	✓	—	—			I	〃	170	
4-12	263	♂	✓	—				—	〃	190	
4-13	228	♀	✓	—				I	〃	110	
4-14	225	♀	✓	—				I	〃	120	
4-15	242	♀	✓	—				I	〃	145	
4-16	235	♀	✓	—				I	〃	135	
4-17	231	♂	✓	—				—	〃	125	
4-18	234	♀	✓	—				I	〃	135	
4-19	261	♀	✓	—				I	〃	185	
4-20	240	♂	✓	—				—	〃	155	
4-21	237	♂	—	—				—	〃	135	
4-22	215	♀	✓	—				I	〃	100	
4-23	253	♀	✓	—				I	〃	160	
4-24	226	♀	✓	—				I	〃	115	
4-25	253	♂	✓	—				—	〃	170	
4-26	341	♂	✓	—				—	〃	385	
4-27	264	♀	✓	—				I	〃	175	
4-28	258	♀	✓	—				I	〃	190	
4-29	257	♀	✓	—				I	〃	165	
4-30	237	♀	✓	—				I	〃	140	
4-31	257	♂	✓	—				—	〃	175	
4-32	233	♀	✓	—				I	〃	135	
4-33	267	♀	✓	—				I	〃	195	
4-34	248	♀	✓	—				I	〃	160	
4-35	257	♂	✓	—				—	〃	170	
4-36	249	♀	✓	—				I	〃	150	
4-37	252	♀	✓	—				I	〃	165	
4-38	268	♀	✓	—				I	〃	195	
4-39	221	♀	✓	—				I	〃	120	
4-40	263	♀	✓	—				I	〃	170	
4-41	212	♂	✓	—				—	〃	110	
4-42	258	♀	✓	—				I	〃	170	
4-43	237	♀	✓	—				I	〃	150	
4-44	346	♂	✓	—				—	〃	410	
4-45	211	♂	✓	—				—	〃	105	
4-46	257	♀	—	—				I	〃	180	
4-47	239	♀	✓	—				I	〃	145	
4-48	234	♀	✓	—				I	〃	140	

ANADROMOUS FISH TAGGING & RELEASE DATA

Station No. 2451

Tot. Fish Captured 23

Date 4-2-74

Tot. Fish Tagged 21

[illegible] - 5Fms

Area of Release 3.3 Miles E of Curr. Tuck Light

No. Retained for analysis 2

LORAN Start 1708 30.38 6Fm

Gear Type 151' Wing Trawl

Finish 1708 30.37 6Fms

Area I

TAG. NO.	Weight Lbs.	Weight Ozs.	F.L. (cm)	Species	Remarks
F0993			289	P. dentatus	
F0994			288	"	
F0995			292	"	
F0996			265	"	
F0997			247	"	
F0998			211	"	
F0999			222	"	
F1000			[illegible]	"	
F1001			227	"	
F1002			342	"	
~~F1003~~			317	"	
F1004			203	"	
F1005			186	"	
F1006			178	"	
F1007			194	"	
F1008			214	"	
F1009			208	"	
F1010			[illegible]	"	
F1011			[illegible]	"	
F1012			196	"	
F1013			198	"	

Length-frequency distribution

Species *P. dentatus* Station: 2451

Date: April 2, 1974 Locality: 1

T.L.	Unsexed		♀		T.L.
100 -109.9					600 -
110 -					610 -
120 -					620 -
130 -					630 -
140 -					640 -
150 -					650 -
160 -					660 -
170 -	|	①			670 -
180 -	|	①			680 -
190 -	|||	③			690 -
200 -	||	②			700 -
210 -	|||	③			710 -
220 -	||	②			720 -
230 -	|	①			730 -
240 -	|	①			740 -
250 -					750 -
260 -	|	①			
270 -					
280 -	|||	③			
290 -	|	①			
300 -					
310 -					
320 -					
330 -					
340 -	|	①			
350 -					
360 -					
370 -	|	①			
380 -					
390 -					
400 -					
410 -					
420 -					
430 -					
440 -					
450 -			①		
460 -					
470 -					
480 -					
490 -					
500 -					
510 -					
520 -			①		
530 -					
540 -					
550 -					
560 -					
570 -					
580 -					
590 -					

Unsexed	21
♀	2
	23

Sheet 1 of 1

9451